

NOVAK, A.

Situation of accidnets in the electric power industry. p.297

ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavni sprava
elektaren) Praha

Vol. 5, no. 8, aug. 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

NOVAK, A.

NOVAK, A. A mass accident caused by the incorrect use of phase bars. p. 326.

Vol. 6, no. 7, July 1956

ENERGETIKA

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

NOVAK, A.

Problems of fatal and serious injuries in electric-power production. p.516.

ENERGETIKA. Praha, Czechoslovakia. Vol. 9, no. 10, Oct. 1959

Monthly list of East European Accessions (EEAI, LC. Vol. 9, no. 2, Feb. 1960
Uncl.

NOVAK, Antonin

Explosion of the coal dust in the mill of an electric power plant.
Energetika Cz 11 no.3:141-142 Mr '61.

NOVAK, Antonin

Improvement of the industrial safety in power plants in the
third five-year plan. Energetika Cz 11 no.9:437-440 S '61.

NOVAK, Antonin

Revision of Czechoslovak Standard 34 3100: Work and Operation
Regulations of Electric Equipment. Energetika Cz 14 no.10:
500-503 0 '64.

1. Technical Group for Industrial Safety and Hygiene of the
Czechoslovak Scientific and Technological Society.

NOVAK, Antonin, inzynier

Characteristics of electric shock accidents and methods of preventing them in electric power engineering in the Czechoslovak Socialist Republic. Wlad elektrotechn 28 no.11/12:340-344 R-D '61.

NOVAK, Antonin

Scientific technical conference on safety at work in electrical
installations in Warsaw. Elektrotechnik 17 no.5:150-151
My '62.

NOVAK, Antonin

The characteristic of serious injuries in electrical engineering caused by electric power in 1962. Energetika Cz 13 no.10: 536-539 0 '63.

1. Ceskoslovenska vedecko-technicka spolecnost, sekce energetiky, odborná skupina pro bezpecnost a kulturu prace v energetice.

SHAPIRO, Z.B.; NOVAK, A.G.

Casting iron chain rollers. Lit.proizv. no.8:27-28 E '54.(MLRA 8:1)
(Iron founding)

NOVAK, A.G.

Refining tin bronze by separating aluminum excess. Lit.proizv.
no.1:27-28 Ja '55. (MLRA 8:3)
(Aluminum bronze)

Absorbed sodium in the soils of the Far East and the reason for the variability in the activity of the different forms of nitrogen fertilizers. A. G. Novak. *Dokl. Far East Branch Acad. Sci. U. S. S. R.* No. 29, 70 (in English, 1955) (1955). — Data are presented showing that in spite of the podzol process of soil formation Na enters the exchange complex and for that reason no crop response is obtained from NaNO_3 whereas $(\text{NH}_4)_2\text{SO}_4$ is effective. p. 5. Table.

ASIA, S.E.A. METALLURGICAL LITERATURE CLASSIFICATION

The influence of microelements on the sod-podzol soils of the Far Eastern region. A. G. Novik. *Bull. Far East Branch Acad. Sci. U. S. S. R.* 21, 111-13 (1985) - Recommendations for further study of the effect of microelements on the soil fertility of the region based on the review of literature and some tentative experimental evidence of beneficial influence of addition of B and Mn on the crop yield of tomatoes, soybeans and wheat. C. B.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM: STEADMAN

SEARCHED MAP ONLY 001

0011111111

FROM: STEADMAN

SEARCHED MAP ONLY 001

1. NOVAK, A.
2. USSR (600)
4. Siberia, Eastern-Agricultural Research
7. Scientific establishments contribute to collective farm production; Far Eastern Scientific Research Institute of Agriculture and Animal Husbandry. Kolkh. proizv. 12, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KOVAK, A. G.

Primenenie udobrenii v Khabarovskom krae [Use of fertilizers in Khabarovsk Territory].
Khabarovsk, 1953. 48 p.

SO: Monthly List of Russian Accessions. Vol. 6, No. 5, August 1953

NOVAK, A.G., doktor sel'skokhozyaystvennykh nauk.

Reclamation of land in the Far East. Nauka i pered.op. v sel'khoz.
6 no.12:2-3 D '56. (MLRA 10:1)

1. Dal'nevostochnyy nauchno-issledovatel'skiy institut sel'skogo
khozyaystva.

(Soviet Far East—Reclamation of land)

NOVAK, A. G.

USSR / Cultivated Plants. General problems.

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34562

Author : Novak, A. G.

Inst : Not given

Title : Certain Agricultural Problems in the Far East

Orig Pub : Zemledeliye, 1957, #2, 14-17.

Abstract : Description of agrotechnical methods of cultivation in areas and rayons with virgin and with previously plowed soils - according to soil-climatic and other conditions - for the purpose of obtaining high food, fodder crops and grass. Particular attention is paid to summer wheat, fallows, and the use of organic and mineral fertilizers. -- R. I. Serdyannyi.

Card 1/1

2

NOVIT, A.G., prof., doktor nauk, nat.

Growing north in the Far East. Southern part of the Far East.

(11-12-1)

(Soviet Far East—Soyuz)

NOVAK, A.G., prof., doktor sel'skokhozyaystvennykh nauk (Khabarovsk)

Let's start all-Union distribution of soybean! Nauka i zhizn'
29 no.11:98-100 N '62. (MIRA 16:1)
(Soybean)

NOVAK, Aleksandr Grigor'yevich, prof., doktor sel'skokhoz.nauk; BASHKIN, Ye.L., red.; MARKOVA, S.M., red.; KAYDALOVA, M.D., tekhn.red.

[Principal problems of agriculture in the Far East] Osnovnye voprosy zemledeliia Dal'nego Vostoka. Izd.2., ispr. 1 dop. Khabarovsk, Khabarovskoe knizhnoe izd-vo, 1959. 446 p.

(MIRA 13:6)

(Soviet Far East--Agriculture)

NOVAK, Aleksandr Grigor'yevich, doctor of Sci. A. Novak; "Vostok",
M.A., red.

[Growing soybeans] Vostochnyie i. A. Novak, Moscow, 1964. 103 p.
MIA 1712

NOVAK, A.M., podpolkovnik, voyenny letchik pervogo klassa

By parallel instruments. Vest.Vozd.Fl. no.7:40 J1 '61.
(MIRA 14:8)

(Navigation (Aeronautics))

NOVAK, A.M., podpolkovnik, voyenny letchik pervogo klassa

By parallel instruments. Vest.Vozd.Fl. no.8:61 Ag '61.
(MIRA 14:8)

(Navigation (Aeronautics))

NOVAK, A.T.

Semiautomatic machine for grinding the cylinder valve heads of the
"Zaporozhets" automobile engine. Avt.prom. no.9:33-34 S '61.
(MIRA 14:9)

1. Melitopol'skiy motornyy zavod.
(Automobiles--Engines--Cylinders) (Grinding machines)

NOVAK, B. (Kiyev)

Hold it that way. Za rul. 21 no.4:15 Ap '63.

(MIRA 16:5)

1. Obshchestvennyy korrespondent zhurnala "Za rulem".
(Kiev--Automobile drivers--Education and training)

NOVAK, B.

3

CZECHOSLOVAKIA

SULC, J. NOVAK, B. DRANOZAL, H. HASA, J.

1. Nerve Ward of UVN (Nervovi oddeleni), Prague; 2. Second Internal Medicine Ward UVN (II vnitřní oddeleni UVN), Prague

Prague
Seno, Vnitřní lékařství, No 7, 1963, pp 677-681

"The Follow-up Study of ECG in Trauma of the Skull."

621.317.32.019.3
1398. Measurement of surge voltages. B. NOVÁK.
Elektrotech. Obs., 39, 281-6 (July, 1950) in Czech.
Methods of measuring lightning voltages

Existing methods of measuring impulse voltages are subject to many sources of error and are, moreover, laborious. The method suggested consists in the measurement by ballistic methods or by fluxmeter of the charge transported. The errors involved and their elimination are discussed in detail. The theory given is verified experimentally. **B. J. ERASM**

5753* The Measurement of Surge Voltages. R. Novak
Engineers' Digest, v. 12, Feb. 1951, p. 47-48. (Translated and
 condensed from *Elektrotechnicky Obzor*, v. 30, 1950, p. 281-286)
 Criticizes the usual methods for surge-voltage measurements
 and proposes an indirect method which, by means of fluxmeters,
 indicates the electrical charge of the wave.

5753-51.4 METALLURGICAL LITERATURE CLASSIFICATION

NOVAK, B.

NOVAK, B. Technique for measuring water. p. 230

Vol. 35, no. 8, Aug. 1956

VODA

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

Country : Czechoslovakia B-3
 Category : Information on the activities of the Czechs and Their
 Agents in the West - Central and Eastern Europe
 Add. Jour. : Reference to the Czechs in the West 34925
 Author : ~~Unknown~~
 Institution : ~~Unknown~~
 Title : The Czechs in the West - Central and Eastern Europe

Vol. 1 : Vol. 1, No. 1, 1-1957

Notes : A series of the Czechs in the West - Central and Eastern Europe
 1. Introduction

Page: 1/1

NOVAK, B.

Integral points in n-dimensional ellipsoids. Dokl. AN SSSR
153 no.4:762-764 D '63. (MIRA 17:1)

1. Predstavleno akademikom A.N. Kolmogorovym.

I. 39640-65 EWA(h)/EWT(1) Feb

ACCESSION NR: AT5003847

Z/2512/63/011/000/0079/0142

AUTHOR: Cervený, V.; Hron, F.; Novák, B.

17
17
6+1

TITLE: Reflection coefficients of plane waves of the PP-type for weak interfaces

SOURCE: Československá akademie věd. Geofyzikální ústav. Geofyzikální sborník, v. 11, 1963. Prague, 1964, 79-142

TOPIC TAGS: PP type plane wave, reflection coefficient, refractive index, weak interface, potential coefficient, displacement coefficient, spherical wave, plane elastic wave, seismic sounding, seismic wave propagation

ABSTRACT: The article gives the coefficients of PP-type reflection for values of the index of refraction $n = a_1/a_2$ between 0.6 and 1.0. These coefficients are important mainly in studying the reflection of plane waves from weak interfaces, i.e., when studying the earth's crust by seismic depth sounding. Both the moduli and arguments of these reflection coefficients are given, and some other functions are tabulated which are important in studying many problems of the propagation of seismic waves, particularly the reflection of spherical waves. The tables were computed at the Numerical Mathematics Center of the Faculty of Mathematics and

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ACCESSION NR: AT5003847

2

Physics, Charles University, Prague, on an IGP 30 electronic computer. Only the basic equations and notation necessary for a correct understanding of the tables are given, no attempt being made to analyze the reflection and refraction of plane elastic waves on a plane interface. The reflection and refraction coefficients discussed here are the so-called "potential" coefficients, and the expression relating the "potential" coefficients to the "displacement" coefficients is given. Orig. art. has: 24 formulas.

ASSOCIATION: [Cerveny, Ilon] Geophysical Institute, Charles University, Prague;
[Novak] Numerical Mathematics Center, Charles University, Prague

SUBMITTED: 13Feb63

ENCL: 00

SUB CODE: F2

NO REF SOV: 003

OTHER: 007

Card 2/216

NOVAK, B.; SULC, J.

Biliary tract diseases in young men. Ces. lek. čas. 103
no.46:1270-1273 13 N '64.

1. II. interní oddělení UVN v Praze (vedoucí MUDr. J. Smrčka).

NOVAK, Bohumil

Experience with cyclopropane during cesarean section. *Cesk.gyn.*
25[39] no.8:629-630 0'60.

1. Gyn. por. odd. QUNZ - Cesky Krumlov, prednosta prim.MUDr.
B.Novak.

(CESAREAN SECTION anesth. & analgesia)
(CYCLOPROPANE anesth. & analgesia)

NOVAK, Bohumil

NOVAK, Bohumil
SURNAME, Given Name

Country: Czechoslovakia

Academic Degrees: /not given/
Second Department of Internal Medicine (II. vnitřní oddělení),

Affiliation: UVM /presumably Ústřední vojenská nemocnice; Central Army Hospi-
tal/, Prague; Director: Jiri Sarda, MD.

Source: Prague, Vnitřní Lékařství, Vol VII, No 5, 1961, pages 557-560.

Date: "Simultaneous Presence of Lymphatic Leukemia and Carcinoma of
the Stomach."

SULC, Jiri, Second Department of Internal Medicine, UVM, Prague.

(S) 10160)

NOVAK, B.
ry
CZECH

Influence of the natural symbiosis of Azotobacter on the fixation of molecular nitrogen. B. Novák, H. Dvořáková, and J. Horáková (Výzkumný ústav rostlinné výroby CSAZV, v. Práze-Rusyni, Czech.). *Sborník Českoslov. Akad. Zeměděl. Věd*, 27A, 485-96 (1954).—In lab. studies nitrogen fixation of pure and symbiotic cultures of *Azotobacter* was compared. The cultures were incubated at 25° on a synthetic medium with 1% glucose for 5 weeks and were examd. twice during this time. Pure and symbiotic cultures fixed different amts. of N. The best results were obtained with the symbiotic cultures. For instance "A-3" fixed 38.15 mg. of N and utilized 1 g. of glucose in 2 weeks. In 5 weeks N decreased to 35.8 mg. and 45 mg. more of glucose were utilized. The decrease was not found in pure cultures. 76 references. Jan Mícha

NOVAK, B

USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26180

Author : Novak, B., Dvorzhakova, H,

Inst :

Title : The Preparation of a Synthetic Solution for Fungi and Cellulose-Decomposing Bacteria.

Orig Pub : Sbor. Ceskosl. akad. zemed. ved. Rostl. vyroba, 1955, 28, No 1, 45-54

Abst : The composition and manner of preparation is given for a nutrient solution for fungi, which, when sterilized, does not involve the hydrolisis of agar. In identifying cellulose-decomposing bacteria, actinomycetes and fungi, a nutritive agar is recommended, close in composition to Vinogradskiy's fluid medium. It is suggested that cultures of cellulose-destroying bacteria be kept test tubes on strips of filter paper partly submerged in the nutrient solution. The possibility is

Card 1/2

USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26180

investigated of cultivating nitrobacterium in agar
devoid of nitrogen, partly oxidized with KMnO_4 .
(from the authors' abstract)

Card 2/2

NOVAK, Bohumir, inz. dr., ScC.; FRANKLOVA, Sona

Contribution to the knowledge of the dynamics of the lysimetric
value of earth and sand in manuring with organic fertilizers.
Rost výroba 9 no.5:487-500 '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, mikrobiologicke
oddeleni Ruzyně.

NOVAK, B.; KOZOVA, J.; LOBL, F.; APFELTHALER, R.

Influence of organic substances in different humification stages on microbiological and biochemical processes in soil. Rost vyroba 9 no.7/8:770-779 J1-Ag '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, oddeleni mikrobiologie, Ruzyne.

NOVAK, Bohumil, inz. dr., CSc.

Relation between the relative breathing capacity and the occurrence of actinomycetes in organic manure. Rost výroba 9 no. 12:1297-1300 D '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, mikrobiologicke
Melni, Ruzyno, vedouci dr. E. Hamatova, CSc.

ACCESSION NR: AP4039423

2/0039/64/025/006/0353/0361

AUTHOR: Novak, Bohuslav (Engineer)

TITLE: A waveguide frequency discriminator

SOURCE: Slaboproudý obzor, v. 25, no. 6, 1964, 353-361

TOPIC TAGS: discriminator, waveguide frequency discriminator, frequency discriminator, frequency modulated signal, audio, signal, inductive susceptance, microwave oscillator, frequency control, microwave circuit.

ABSTRACT: The article describes a new type of waveguide type frequency discriminator. Equations for voltages on the detectors are derived. The actual error voltage is $U_{\text{e}} = 8ak_1 k_2 E_0^2 \frac{\alpha x}{(1 + \kappa)^2 + \alpha^2}$.

After introducing $\alpha = \frac{2\Delta f}{f_0}$ into equation (1), the error voltage U_{do} can be expressed as a function of detuning $U_{\text{e}} = 16ak_1 k_2 E_0^2 \frac{Q_d \alpha \Delta f}{(1 + \kappa)^2 + 4(\Delta f)^2 Q_d^2}$.

The error voltage is derived from the phase shifts of the electromagnetic field when the impedance-coupled cavity is detuned. Silicon diodes and kenotrons as

Card 1/2

Card 2/2

NOVAK, Boris

Polar star. Voen. znan. 40 no.6:43 Je '64.

(MIRA 17:7)

Country : Czechoslovakia P
 Subject : GENERAL SPEC. ZOOLOGY, INSECTS - Harmful Insects and
 Mites.
 Author : J. Novak, Praha, 1957, No. 2, 1959, No. 7018
 Title : Novak, Borivoj
 Not given
 Subject : Biological Protection against Aphids.

Orig. from : Prived. Vedy skola. 1957, 2, No. 9, 791-796

Abstract : The intensive reproduction of *Aphis fabae* which caused great damage to sugar beets in 1956, is connected with a dearth of entomophagous insects. Among the predators of the aphid the seven-spotted lady bird and *Epistrophe balteata* and *Lasiophticus pyrastris* are described in detail, in order that they may be protected. It is recommended that aphid eggs on viburnum and other bushes

CARD : 1/2

CERVENY, Vlastimil; NOVAK, Bretislav

Theoretical amplitude curves of waves reflected from Mohorovicic discontinuity for some models of one-layered earth's crust. *Studia geophys* 8 no.1:34-44 '64.

1. Geophysical Institute, Charles University, Praha 2, Ke Karlovu 3 (for Cerveny).
2. Center of Numerical Mathematics, Charles University, Praha 1, Malostranske namesti 25 (for Novak).

NOVAK, C.

"Economizing Wood Used in Industrial Construction Work." p. 207 (Stavební průmysl,
Vol. 3, no. 12, June 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 1, no. 1, Library of Congress,
Feb. 1954, Uncl.

Novak, L.

CZECHOSLOVAKIA / Solid State Physics / Structural Crystallography. E-4

Abs Jour : Ref Zhur - Fizika, No. 5, 1957 No. 11600.
Author : Linek, Allen., Novak Otirad
Inst : -
Title : Computing Machines of the Saboratory for Crystalline
Structures of the Institute of Technical Physics of the
Czechoslovak Academy of Sciences.
Orig Pub : Stroje Zpracov. inform., 1955, No.3, 309 - 321.
Abstract : No abstract.

Card: 1/1

NOVAK, C.; LIVEN, A.

The use of a machine for the synthesis of Fourier's series for the solution of higher-order algebraic equations. p. 289. (STUDIA NA ZHIGALNANI INFORMACI, Vol. 4, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (MEAL) SO, Vol. 4, No. 12, Dec 1957. Incl.

CZECHOSLOVAKIA/Laboratory Equipment. Apparatus.q

F

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70670.

Author : Novak.

Inst

Title : A Numerical Generator for Goniometric Function in
Calculating Machines Used in Crystallo-Structural
Analysis.

Orig Pub: Ceskosl. časop. fys., 1958, 8, No 1, 109-111.

Abstract: A new calculating machine of the Institute of
Technical Physics (Czechoslovakian Academy of
Sciences) is briefly described. The machine is
designed for calculating values of goniometric
functions (sin and cos) by the argument expressed
in units of $2\pi/\lambda'^0$. The generator works on the
"dvoichny" system and has many advantages over a

Card : 1/2

24

NOVAK, C

Z/503/62/000/008/002/003

I011/I211

Criticad

AUTHORS:

Linek, Allan and Novak, ~~Tstirad~~

TITLE:

A special printing device with a transformation of binary numbers into decimals expressed by the international teletype code

SOURCE:

Československá akademie věd. Ústav matematických strojů. Stroje na zpracování informací, no. 8, 1962, 121-134 (In Russian. Resumes in Czech and German)

TEXT:

The results of computations concerning crystal structures, especially projections of electron densities, are usually plotted by hand in the form of maps. A special computer M-1 is used for computations at the crystal structures laboratory

Card 1/4

2/503/62/000/008/002/003
.1011/1211

A special printing....

of the Institute of technical physics of the Czechoslovak Academy of sciences. A teletype serves as an additional unit that prints the results on a sticky tape. Sticking this tape to a sheet of paper yields maps of wanted dimensions and forms. Up to now the results were printed in the octal system. We proposed a new device for printing the results in the decimal system. The device is designed for special crystallographic computations, but some of its parts or principles of operation can be used in other fields. In view of the speed of the M-1 output it is necessary to print a number of 6 characters (at the most) in a 1.5 seconds interval. We chose the relay as the building block of our device since we had previous experience in operating relay machines and because

Card 2/4

A special printing...

2/503/62/000/008/002/003
I011/I211

of its simplicity and availability. We used the tape teletype because of the possibility of simultaneous perforation. The RPT51 teletype was modified by adding to it a camshaft pulse generator that derives its motion from the shaft. We aimed at building an independent printing unit capable of operating with all the computers in the laboratory. The block diagram of the binary to decimal and to teletype code transformer is given and its principle of operation is explained. The transformation is based on comparing the binary number to $m_1 \times 10^n$ ($m_1 = 8;4;2;1$) and then printing out the result, deducting the $10^n \sum m_i$ from the binary number and comparing the remainder to $m_1 \times 10^{n-1}$, and so on. A block diagram of the entire device is given and its operation is explained. Wiring diagrams of the one-tact decoder, the comparison circuit and the decoder that transforms the binary-

Card 3/4

A special printing....

Z/503/62/000/008/002/003
I011/I211

decimal number into a teletype code are given. The device does not print zeros unless there is a non-zero entry in a higher-order decimal place. The mechanical and electrical modifications of the RFT teletype were carried out and its operation was satisfactory. It should be added that the length of a tact is 75 msec. This operating speed can be dealt with by an Aritma relay. There are 8 figures and 2 tables.

ASSOCIATION: Institut technicheskoy fiziki Chekhoslovatskoy AN, (Institute of Technical Physics, Czechoslovak AS) Prague

SUBMITTED: February 17, 1961

4/4

NOVAK, C.

Z/503/62/000/008/003/003

I011/I211

AUTHORS:

Nadrkhal, Ya., Linek, A., Novak, Ts.

TITLE:

A program for computing structure coefficients on the УРАЛ -1 (URAL-1) computer

SOURCE:

Československá akademie věd. Ústav matematických strojů. Stroje na zpracování informací, no. 8, 1962, 189-198 (In Russian, Resumes in Czech and German)

TEXT:

The work reported here was carried out at the crystal structures laboratory of the Institute of technical physics of the Czechoslovak Academy of sciences. Some problems arise when the URAL-1 computer is used: its relatively small

Card 1/6

Z/503/62/000/008/003/003
I011/I211

A program for computing....

memory does not permit computations with many atoms; the low operating speed makes high machine times necessary; the computer accuracy is too high. The aim of this program is to overcome these limitations. It permits operation with up to $N = 240$ atoms in an elementary cell. It is universal since it is based on the general expression of the structure coefficient

$$F_{hkl} = \sum_{j=1}^N f_{j,hkl} \cdot e^{2\pi i(hx_j + ky_j + lz_j)} \quad (1)$$

The computation time is minimized and reaches 43 seconds for $N = 200$ in a structure with a center of symmetry. When a common program is used the maximum possible number of atoms is half the number reached by this program and the machine time is more than

Card 2/6

Z/503/62/000/008/003/003
I011/I211

A program for computing....

twice (for N up to 20), three times (at $N = 50$) and more (for $70 < N < 100$) the time used by this program. The mathematical formulation of the problem and the block-diagram of the computation are given. The computation is made by the Lagrange interpolation method of the $f(s)$ values from a table after the argument $u = \sin^2$ has been computed. The $f(s)$ functions are given by a table of values at 33 interpolation nodes and placed in neighbouring memory cells that are not full. The argument step is $\frac{1}{32}$ of the interval. This enables the use of the first five bits of $32u$ as the relative address of the interpolation node. The value $f(s)(u)$ is placed in the memory N_8 times as $f_{j,hkl}$. When standard sub-programs are used 50 operations are needed for computing a value of a goniometric function when the argument is known. Long experience with

Card 3/6

A program for computing...

Z/503/62/000/008/003/003
I011/I211

special relay computer ELISHKA-1 shows that results of sufficient accuracy are reached when the $hx_j + ky_j + l - z_j$ argument is computed to 10 binary places with the relative atom coordinates x_j, y_j, z_j in steps of $\frac{1}{1024}$ of an identity period and with goniometric functions given by a table at $1024 = 2^{10}$ points of the $(0 \dots 2\pi)$ interval and when the computation is carried out with no interpolation. It is shown that the absolute error of this method allows its use in practical computations (the maximum error in determining the function value is 0.012 when x_j, y_j, z_j are given by 13 binary places). The goniometric functions are inserted in the proposed case into the memory as a table of 321 values which are only 5 quadrants of the cosine function in the $(-\pi/4 \dots 2\pi)$ interval. The argument step is 2^{-8} thus enabling the use of the first 8 bits of the

Card 4/6

2/503/62/000/008/003/003
I011/I211

A program for computing...

$hx_j + ky_j + lz_j$ argument as the relative address in the table. Sine and cosine functions are computed from the same table by 4 operations. The computation is shortened in special cases (two-dimensional projections, structures with a center of symmetry by switches on the panel. The computation is programmed with a fixed decimal point and fixed binary scales. Results are printed in a decimal system in a-priory given decimal scale. They are readily read from the paper tape and compared with control values. Conclusion: there are approximately 280 orders which (together with the goniometric functions table and the atom coefficients tables) occupy 800 memory cells. This allows computations with

Card 5/6

Z/503/62/000/008/003/003
IO11/211

A program for computing....

6 types of atoms and $N_{\max}=240$. The input data are given in the octal system (URAL modified code). This presents no difficulty because: (a) the inverse net parameters are used only once for all the iteration steps of a given structure; (b) atom coordinates are given by a table which is good for all the structures; (c) atom coefficients tables are given on a special sub-program. There are 1 figure and 1 table. The personalities mentioned are: engineer Mateyovskiy and diplomed mathematician Frishova of the computation center of the Institute of information theory and automation of the Czechoslovak Academy of Sciences.

ASSOCIATION: Institut tekhnicheskoy fiziki Chekhoslovatskoy AN,
(Institute of Technical Physics Czechoslovak AS) Prague

SUBMITTED: February 17, 1961

Card 6/6

NOVAZ D.

Z dermat. Klin. MU, Brno. *Stav vegetativního nervstva u některých kožních chorob.
The state of the vegetative nervous system in some skin diseases CSL.

DERM. 1954, 29/1 (4-13) Tabulky 4 Illus. 1

The authors investigated the vegetative nervous system by Servit's method in some skin diseases (eczema, psoriasis, urticaria). Shifts were found in the vegetative balance, all of which fell within the so-called wider norms of Servit's tables. The question is posed of the relationship between a certain state in the activity of the vegetative nervous system and certain dermatoses. At the same time the shifts were studied in the level of K and Ca ions in the serum after atropine and sympatol: a fluctuation in the Ca level was found. The justification for the investigation of the vegetative nervous system is demonstrated on one of the examination sheets. Simons - Amsterdam

SO: Excerpta Medica

Section XIII

Vol. 9 No. 1

KOHOUTEK, J.; NOVAK, D.

Cholangiogenic liver carcinoma after thorotrast. Cesk. rentg. 14
no.2:110-116 Ap '60.

1. Radiologicke odd. KUNZ Jihlava, prednosta prim. dr. Vl. Maly
Prosektura KUNZ Jihlava, prednosta prim. dr. R. Hambach.
(THORIUM toxicol.)
(LIVER NEOPLASMS etiol.)

NOVAK

CZECHOSLOVAKIA / Chemical Technology. Processes & Equipment. H

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39921.

Author : Nademlynsky, Novak.

Inst : Not given.

Title : The Measurement of Pulp Concentration in a Duct,
by Means of Radioactive Isotopes.

Orig Pub: Energetika (ceskosl.), 1957, 7, No 7, 387-388.

Abstract: A description of a gamma-densitometer is given.
The experiments were carried out on a system for
the hydraulic elimination of ash.

Card 1/1

relationship between the absorption of high frequency
and the concentration of the mixture. The high

NOVAK, Dezso

A simple cryostat with automatic control operating by means of liquid nitrogen used for low-temperature measurements. ATOMKI
kozl 4 no.2:113-117 Ag '62.

NOVAK, Dezdo, tudományos kutató (Debrecen)

Scientific and industrial application of low temperatures.
Term tud kozl 5 (93) no.3:113-116 Mr '62.

H/016/62/000/007/001/002
D249/D308

AUTHOR: Novák, Dezső

TITLE: The attainment of low temperatures

PERIODICAL: Fizikai szemle, 12, no. 7, 1962, 206 - 219

TEXT: A thermodynamic system can be used for cooling if its entropy depends on a parameter x which can be changed from outside: $S = S(T, x)$. The cooling process consists of two stages. During the first stage the temperature is maintained constant and the value of x is changed so as to make the total entropy of the system decrease. During the second stage the system is insulated from its surroundings, and x is changed in the opposite sense. In the first part of the paper a brief theoretical discussion is given of the methods of cooling under the following headings. 1) Cooling of gases by expansion when the entropy is constant. 2) Joule-Thompson effect. Cooling of gases when the enthalpy is constant. The discussion is made within the framework of classical thermo-dynamics. The cooling processes of gases are reviewed on a temperature-entropy diagram. Techniques of liquefaction

Card 1/3

The attainment of low temperatures

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D249/D308

of gases are reviewed in the second part of the paper. The following methods are discussed: 1) The principle of cooling machines. 2) Cascade type liquefiers. 3) Linde-type liquefiers. 4) Liquefaction of gases by making the system perform work at constant entropy; the techniques of Claude, Kapitza and Collins. This technique improves the efficiency of the Linde process and avoids the necessity of liquefying hydrogen and nitrogen prior to the preparation of liquid helium. 5) The storage of low temperature liquids; their application in industry and research. Methods of cooling are discussed in the third part of the paper to obtain temperatures in the region of 1°K - 10^{-3}°K . These are: 1) Adiabatic demagnetization. 2) Adiabatic magnetization of superconductors. 3) Thermoelectric cooling. 4) Cooling by the heat of solution of the Helium-3 isotope. 5) Helium 3 cryostats. Finally the proposals of Gorter, Simon and Kurti and the experiments of Kurti and Hobden are reviewed for obtaining temperatures below 10^{-3}°K . The state of research concerning low temperatures is compared with the results of high temperature research. There are 3 tables and 14 figures.

ASSOCIATION: MTA atommag Kutató Intézet, Debrecen (Hungarian Academy
Card 2/3

The attainment of low temperatures

H/016/62/000/007/001/002
D249/D308

of Sciences, Nuclear Research Institute Debrecen.)

Card 3/3

NOVAK, Dezso

Orientation of atomic nuclei. Fiz szemle 12 no.2:46-59 F '62.

1. Atomkutató Intézet, Debrecen.

NOVAK, Dezso

Measuring low temperatures. Fiz szemle 13 no.1:21-26 Ja '63.

1. Magyar Tudomanyos Akademia Atommag Kutato Intezete,
Debrecen.

NOVAK, Dezso, tudományos kutató (Debrecen)

Production of low temperatures. Term tud közl 4 no.
12:534-637 D '60.

NOVAK, Dezso

Oriented atomic nuclei. ATOMKI kôz1 3 no. 2/3 158-179 1961.

D.MOLNAR, Erzsebet, volt munkatars; NOVAK, Dezso

Testing the operation of end-window Geiger-Muller counters
charged with isobutane + argon gas mixture in the range
of $+20^{\circ}\text{C}$ to -110°C . ATOMKI kozl 5 no.2:99-102 '63

NOVAK, Dusan

Insecticide barriers against mosquitoes. Cesk. epidem. mikrob.
imun. 6 no.5:353-354 Sept 57.

1. KHES v Gottwaldove, entomolgo odd v Hodonine.
(MOSQUITOES,
eradication, insecticide barriers (Cz))

NOVAK, Dusan

Occurrence of mosquitoes (*Culex molestus*) in the Hospital of Gottwaldov.
Cesk. epidem. mikrob. imun. 7 no.4:287-288 July 58.

1. Krajska hygienicko-epidemiologicka stanice v Gottwaldove, entomologicke oddeleni v Hodonine.

(MOSQUITOES,

infestation of hosp. in Czech., location of breeding site
(Cz))

(HOSPITALS,

mosquito infestation in Czech., location of breeding site
(Cz))

Feb, 1.

Importance of proposed...
energization, and...
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NOVAK, Dusan

Research of underground water streams, its importance and methods.
Nova proizvod 12 no.2/3:108-111 Mr '61.

NOVAK, Dusan

Quantitative determination of dyes in the coloring of under-ground-water streams on the Karst. Nova proizv 13 no.4:232-285 3 '62.

NOVAK, Dusan

Karstic phenomena in the Meza River basin. Geografias
24 39-50 '62.

GAMS, Ivan, dr.; KUNAVEP, Jurij; NOVAK, Dusan, geol.; JENKO, Franc;
SAVNIK, Roman

Karst terminology. Geogr vest 34:115-137 '62.[publ.'63].

1. Clan Uredniskoga odbora, "Geografski vestnik" (for Gams).

NOVAK, Oskar

International conference of Hydrogeologists in Belgrade.
Geogr vest 35:104-106 1963 [publ. '64]

NOVAK, Dusan, dipl. geolog (Ljubljana)

Studies on the underwater currents by the spore method.
Nova proizvod 15 no.5:364-366 0 '64.

NOVAK, S.I.

Operation of the cooling system of a high-altitude aircraft. 1951, illus.
(Gt. Britain. Ministry of Aircraft Production. Rn Fr. 1376)

Trans. from the Russian original publ. in Vestnik vozdushnogo flota, 1951, no. 13, no. 4
p. 340-344.

DNASA 44253

SC: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

NOVAK, D.

"Peculiarities of Flight at Great Altitudes"

Vestnik Vozdushnovo Flota (Air Force Herald), #7, July, 1946

The above was cited as a possible source for further information on aviation medical research in connection with an announcement in the USSR that the Central Scientific Research Aviation Hospital* was experimenting in the establishment of "resistance to altitude by men who had suffered fractured skulls accompanied by loss of consciousness."

*Moscow

1954, D. A.

Raketa motornykh zvezd i spetsial'nykh vysshikh. Moskva, 1954, 1. 1.
22 p.

Title tr.: Performance of some accessory units at ...

Reviewed in Sovetskaya avia., 1954, no. 12, p. 51 (1. 1. 1954, avia. 1. 1.).

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library
of Congress, 1955

NOVAK, D.

PA 18T25

USSR/Sound, High Frequency
Velocity, Ultrasonic

Sep 1947

"Supersonic Speeds," D. Novak, 3 pp

"Za Oboronu" No 9

An elementary discussion on the effect of the sound
barrier at extremely high flying speeds (between 900
to 1,000 km per hour).

18T25

NOVAK, D.

1709

USSR/Research and Development of Civil Aircraft Aug 1947
Aircraft 2302.0800

"Aircraft of the Near Future," D. Novak, 3 pp

"Za Oboronu" Vol XXIII, No 10

1 Discusses contribution of Soviet scientists in development of such aircraft as flying wing, flying fuselage, and helicopter. Brief outline of principles of each type of aircraft. Diagram showing development of the airplane since 1909 and diagrams of future models.

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1709

NOVAK, D.

"Innovators of Aviation Techniques," Pioneer pilots prior to 1931, Zb
Olororu, 14, Hc 7, 1940.

NOVAK, D.

Remarkable aerodynamicist S.A. Chaplygin; on the eightieth anniversary of his birth. Voen. znan. 25 no.4:22 Ap '49.

(MIRA 12:12)

(Chaplygin, Sergei Alekseevich, 1869-1942)

~~U.S.S.R. - Information - Information - Information~~

NOVAK, D. D.

Jan 72

NOVAK, D. D.

"Vaccines That Produce Immunity Against Bacterial Infection in Rabbits"
B.F. Yermakov, D.D. Novak, and V.A. Anisimov. Zhurnal Vetskoi Meditsiny, 1971, 76:1, 1-4.
Zhurnal, 1st Section, 1st Sub-Inst. of the USSR Acad. of the Medical Sciences, 1971, 76:1, 1-4.
Agric Sci USSR V.I. Lenin

Veterinariya, 7:1, 1971, 1-4.

Aluminum hydroxide vaccines produced from heat-killed bacteria are used in rabbits in experimental and clinical practice. The authors show that the use of aluminum hydroxide vaccines in an advanced stage of immunity shows that aluminum hydroxide vaccines surpasses the formal vaccine in immunological properties. The authors believe the vaccine novel harmless to rabbits and is an advanced stage of immunity.

14755

NOVAK, D. D.

Elimination of Paratyphus in Calves (Vaccination of Pregnant Cows and Newborn Calves)

S. KH. Kazakhstan, No 2, 1954, pp 53-55

A new method of prophylaxis against paratyphus of calves has been developed by vaccinating the pregnant cows and their just born calves. The cows are vaccinated with the vaccine (formol or alum) in the 7th or 8th month of pregnancy three times in a 2-weeks interval; first time: 10 ml; second time: 12-15 ml; third time: 15-20 ml. The calves receive the first time 0.5 to 1.0 ml and on the 4th day after birth 1.0 to 1.5ml. The author claims that immunization of the cows should be repeated after 2 years and that the calves should be vaccinated in their 2nd year. (RZhBiol, No 1, 1955)

SO: Sum. No. 639, 2 Sep 55

IL'INOV, S.P.; KOVAK, D.D., kandidat veterinarnykh nauk; LAVRUSHEKO, T.A.;
SHULOV, V.V.; KLIMOV, N.D.

Crowfoot poisoning showing clinical aspects of a bradset-type
disease. Veterinariia 32 no.3:79-84 Mr '55. (MLRA 8:4)

1.Direkter Yuzhno-Kazakhstanskoy NIVOS (for Il'inev).2.Starshiy
nauchnyy sotrudnik NIVOS (for Kovak).3.Veterinarnyy vrach NIVOS
(for Lavrushko).4.Glavnyy veterinarnyy vrach Chingkentskogo uprav-
leniya sevkhov (for Shulev).5.Direkter Chingkentskoy mezhsevkhoz-
ney vetbaklaboratorii (for Klimov).
(SHEEP--DISEASES) (CROWFOOT--TOXICOLOGY)

USSR / Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi. R-1

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7292.

Author : I. I. Arkhangel'skiy, P. F. Yarovoiy, D. D. Novak,
V. Ye, Arkhangel'skaya, Sh. T. Rasulyev,
V. I. Nadbalin.

Inst : Not Given
Title : Wide Experience in the Use of Aluminous Paratyphoid Vaccine on Calves in Kazakhstan and Uzbekistan

Orig Pub: Nauch. tr. Uzbek. s-kh. in-ta, 1956, 10, 5-8

Abstract: By experiments on laboratory animals it has been shown that, the aluminous vaccine for paratyphoid of calves is more immunizing than Formol-vaccine. The aluminous vaccine proved entirely harmless to calves and expectant cows. Its use

Card 1/2

KOTOV, V.T., prof.; NOVAK, D.D., dotsent

Methods of the elimination of tuberculosis in cattle on the
farms of Voronezh Province. Veterinariia 40 no.10:17-18 1963.
(MIRA 17:5)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

NOVAK, E.

"Production of Synthetic Arlonia", 1. 2 1. (TCHOMSKA PRACA, "No. 1",
No. 5, Jan 1954, Bratislava, Czechoslovakia,

CC: Monthly List of East European Associations, (NEAL), 10, Vol. 1,
No. 1, Jan. 1955, Incl.

L 15523-66 EWA(j)/T/EWA(b)-2 JK

ACC NR: AT6007390

SOURCE CODE: HU/2505/65/026/00X/0018/0018

AUTHOR: Hollan, Z.; Novak, E.; Koszeghy, Zauzsa; Stark, E.

ORG: Research Institute of Experimental Medicine, Hungarian Academy of Sciences,
Budapest (Magyar Tudományos Akadémia, Kísérleti Orvostudományi Kutató Intézet);
National Blood Donor Service, Central Research Institute, Budapest (Országos
Vertranszfúziós Szolgálat, Központi Kutató Intézet)

TITLE: Immunochemical studies of the proteins of denervated muscle [This paper
was presented at the 27th Meeting of the Hungarian Physiological Society held
in Szeged from 2 to 4 July, 1964.]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement,
1965, 18

TOPIC TAGS: immunology, biochemistry, protein, rat, electrophoresis, myology,
blood serum, rabbit, antigen

ABSTRACT: The immunochemical changes in
the gastrocnemius muscle have been studied following unilateral resection
of the sciatic and femoral nerves in albino rats, using the immuno-electro-
phoretic method of GRABER and WILLIAMS and the double immune diffusion
technique of OUCHTERLONY and BJORKLUND. With immune sera of rabbits inoculated
Card 1/2

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ACC NR: AT6007390

with denervated rat muscle, the extract of the denervated muscle gave a new precipitation band which is absent in the normal muscle extract. It was demonstrated by the double immune diffusion method that the new precipitation band does not extend into any band of the normal muscle extract, i.e. it is an immunologically different protein. Following the absorption of immune serum with the normal rat muscle extract, a precipitation band was produced only by the antigen of the denervated muscle. In this manner, a protein of new antigenic activity can be demonstrated in denervated muscle.

[JPRS]

SUB CODE: 06 / SUBM DATE: none

CC
Card 2/2

NOVAK, Eduard, inz.

Development of the output and technical and economic indexes
in the Slovak coal mines. Uhli 6 no. 7:230-233 J1 '64.

1. Zdruzenie slovenskych uholnych bani, Prievidza.

SZELL, Istvan, dr.; EMBER, Magda, dr.; NOVAK, Erna, dr.

Treatment of trichomonal vaginitis with imidazole derivate.
Magy.noorv.lap. 26 no.5:313-320 S '63.

1. A Szegedi Orvostudományi Egyetem Női Klinikájának (Igazgató: Szontagh Ferenc dr. egy. tanár) és A Szeged Városi Közegészségügyi-Jarvanyügyi Állomás parasitológiai laboratóriumának Közleménye (Igazgató: Vetro János dr. főorvos).